

**INDIAN BUREAU OF MINES
MINERALS DEVELOPEMMENT AND REGULATION DIVISION**

MCDR INSPECTION REPORT

Ajmer regional office

Mine file No : RAJ/JHN-44/FE-15

Mine code : 30RAJ17010

- (i) Name of the Inspecting : **P022**) **PANKAJ KULSHRESTHA**
Officer and ID No.
- (ii) Designation : Assistant Controller Mine
- (iii) Accompanying mine : Shri Chhagan Modi, Lessee Representative,
Official with
Designation
- (iv) Date of Inspection : 06/11/2024
- (v) Prev.inspection date : 19/03/2016

PART-I : GENERAL INFORMATION

1. (a) **Mine Name** : **KHAROTI DHANIYA**
- (b) **Registration NO.** : **IBM/5539/2011**
- (c) Category : B Manual
- (d) Type of Working : Opencast
- (e) Postal address
State : RAJASTHAN
District : JHUNJHUNU
Village :
Taluka :
Post office :
Pin Code :
FAX No. : NA
E-mail : NA
Phone : 01574-230128, 9829214974
- (f) Police Station : CHALA
- (g) First opening date : 16/12/2004
- (h) Weekly day of rest : SUN
2. Address for : SH CHHAGAN MODI, CHHAWANI
correspondance : NEEM KA THANA, DIST- SIKAR
3. (a) Lease Number : RAJ2258
(b) Lease area : 5
(c) Period of lease : 50
(d) Date of Expiry : 17/12/2054
4. Mineral worked : IRON ORE Main

5. Name and Address of the

Lessee : SHIKHA MODI
 W/O SHRI CHAGAN LAL MODI
 CHHAWANI, NEEM KA THANA
 SIKAR RAJASTHAN
 Phone:01574-230128, 9829214974, 9829017542
 FAX :

Owner : SHIKHA MODI
 NEEM KA THANA DIST-SIKAR
 JHUNJHUNU RAJASTHAN
 Phone:
 FAX :

Mining Engineer

Name : RAJ SINGH, Full Time
 Qualification : B.E (Mining)
 Appointment/ : 21/04/2015
 Termination date

6. Date of approval of Mining	:	Fresh under rule 22 MCR1960	26/04/2004
Plan/Scheme of Mining		Modif.of approved Mining Plan	02/05/2005
		Mining Scheme rule 12 MCDR1988	15/03/2012
		MP modif under MCR 1960	14/09/2015

PART - II : OBSERVATION/COMMENTS OF INSPECTING OFFICERS

Exploration :

Sl.No.	Item	Proposals	Actual work	Remarks
1a	Backlog of previous year	Total seven boreholes were proposed during the year 2021-22. During the year 2023-24 there no proposal for bore holes.	During the year 2023-24 total 7 bore holes were drilled.	
1b	Exploration over lease area for geological axis 1 or 2	No exploration proposal during the year 2023-24.	Not applicable	
1c	Exploration Agencies and Expenditure in lakh rupees during the year	No such proposal	Not applicable	
1d	Balance area to be explored to bring Geological axis in 1 or 2	Nil	Not applicable	
1e	Balance reserve as on 01/04/20	As per approved document dated 17.09.2020, the position of total Reserve and Resources as on 31.03.2020 were on 0.186 and 0.159 million tonnes respectively.	The position of total Reserve and Resources as on 31.03.2023 were on 0.160 and 0.159 million tonnes respectively.	
1f	General remarks of inspecting officers on geology, exploration etc	NA	The present status on geology and exploration may be considered as satisfactory.	

Development :

Sl.No.	Item	Proposals	Actual work	Remarks
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2a	Location of development w.r.t. lease area	The proposal of mine development was given in Pit along the boundary Pillar A'D'	As above
2b	Separate benches in topsoil, overburden and minerals (Rule 15)	Separate benches in OB & Mineral was proposed	Separate benches have been formed in O/b and mineral.
2c	Stripping ratio or ore to OB ratio	1:3.79	1:32.15
2d	Quantity of topsoil generation in m3	No top soil was proposed during the year 2023-24.	No top soil generated during the year 2023-24.
2e	Quantity of overburden generation in m3	16160 cu.m. waste generation was proposed during the year 2023-24.	1154 cu.m. waste/ OB generated during the year 2023-24.
2f	General remarks of inspecting officers on development of pit w.r.t. type of deposit etc	NA	The present status on development of pit w.r.t. type of deposit may be considered as satisfactory.

Exploitation:

Sl.No.	Item	Propasals	Actual work	Remarks
3a	Number of pit proposed for production	One pit	As above	
3b	Quantity of ROM mineral production proposed	12347 T of ROM proposed during the year 2023-24.	600 T of ROM produced during the year 2023-24.	
3c	Recovery of sailable/usable mineral from ROM production	90%	As per proposal	
3d	Quantity of mineral reject generation	407 Cu.m. mineral reject generation as per proposal	No mineral reject generated during the year 2023-24.	

3e	Grade of mineral rejects generation and threshold value declared.	Not specified	Not applicable
3f	Quantity of sub grade mineral generation.	No such proposal	Not applicable
3g	Grade of sub grade mineral generation	No such proposal	Not applicable.
3h	Manual / Mechanised method adopted for segregating from ROM	Mechanised	Mechanised
3i	Any analysis or beneficiation study proposed and carried out for sub grade mineral and rejects.	No such proposal	Not applicable
3j	Provision of drilling and blasting in mineral benches	Yes	As above
3k	Provision of mining machineries in mineral benches	Yes, Excavator & dumpers	As above.
3l	Whether height of benches in overburden and mineral suitable for method of mining proposed in MP/SOM	The height of benches in OB & mineral is suitable for method of mining.	As above
3m	Total area covered under excavation/pits	2.2 ha area covered under mining was proposed upto the year 2024-25	2.15 ha. area covered under mining upto the year 2023-24.
3n	Ore to OB ratio for the pit/mine during the year.	1:4.06	1:1.92
3o	Total area put in use under different heads at the end of year	3.1Ha.	3.16 ha. including 0.31 ha. undergreen belt and crusher. during the year 2023-24.

3p	Production of ROM mineral during the last five year period as applicable	2019-20 : 12415 Tonnes, 2020-21: 12120 Tonnes, 2021-22 :12271 Tonnes, 2022-23 :12347 Tonnes 2023-24 : 12347 Tonnes	2019-20 : 50 Tonnes, 2020-21: 11232 Tonnes, 2021-22 :11045 Tonnes, 2022-23 : 1450 Tonnes 2023-24 : 600 Tonnes
3q	General remarks of inspecting officers on method of mining etc.	NA	The present status on method of mining may be considered as satisfactory.

Solid Waste Management - Dumping:

Sl.No.	Item	Propasals	Actual work	Remarks
4a	Separate dumping of topsoil, OB and mineral rejects (Rule 32,33)	No proposal of top soil generation. Only OB & mineral reject proposal given	As above	
4b	Location of topsoil, OB and mineral reject dumps	Proposal of Location of OBDump (N568865, E3066650), (N568916, E3066690)	As above	
4c	Number of dumps within lease area and outside of lease area	One	As above	
4d	Location of dumps w.r.t. ultimate pit limit (Rule 16)	Within UPL.	As above	
4e	Number of active and alive dumps.	One	As above	
4f	Number of dead dumps.	None.	Not applicable	
4g	Number of dumps established.	No such proposal	Not applicable	
4h	Whether Retaining wall or garland drain all along dumps are there.	97 m Garland drain along proposed working has been proposed.	As per proposal	

4i	Length of Retaining wall or garland drain all along dumps	No such proposal during the year 2023-24.	Not applicable
4j	Number of settling ponds	No such proposal	Not applicable
4k	Specific comments of inspecting officer on waste dump management	NA	The present status on waste dump management may be considered as satisfactory.

Solid Waste Management - Backfilling:

Sl.No.	Item	Propasals	Actual work	Remarks
5a	Status of part or full extraction of mineral from mined out area before starting backfilling.	After full extraction of mineral	As above.	
5b	Area under backfilling of mined out area	No such proposal	Not applicable	
5c	Concurrent use of topsoil for restoration or rehabilitation of mineral out area (Rule 32)	No top soil generation proposed during the year 2023-24	Not applicable.	
5d	Total area fully reclaimed and rehabilitated	No such proposal	Not applicable	
5e	General remarks of inspecting officers on backfilling and reclamation etc.	NA	The area is not matured for backfilling and reclamation at present.	

Progressive Mine Clousre Plan:

Sl.No.	Item	Propasals	Actual work	Remarks
6a	Whether Annual report on PMCP submitted on time and correctly. Rule 23 E(2).	Annual report on PMCP shall be submitted before 1 July every year.	Submitted.	

6b	Area available for rehabilitation (ha) .	No such proposal	Not applicable
6c	afforestation done (ha).	50 plants in area of 0.02 Ha. proposed	As above
6d	No. of saplings planted during the year	50 Nos.	As above
6e	Cumulative no .of plants	No specific proposal given.	142 Nos.
6f	Any other method of rehabilitation	No such proposal	Not applicable
6g	Cost incurred on watch and care during the year	Rs 2500 for plantation expenses.	NA
6h	Compliance on reclamation and rehabilitation by backfilling (i) Voids available for backfilling (Lx B x D	0.15 Ha area proposed	As above
6i	Compliance on reclamation and rehabilitation by backfilling (ii) Voids filled by waste / tailings	No such proposal	Not applicable
6j	Compliance on reclamation and rehabilitation by backfilling (iii)Afforestation on on backfilled area	No such proposal	Not applicable
6k	Compliance on reclamation and rehabilitation by backfilling (iv) Rehabilitation by making water reservoir	No such proposal	Not applicable
6l	Compliance on reclamation and rehabilitation by backfilling (v)any other specific means.	No such proposal	Not applicable

6m	Compliance of rehabilitation of waste land within lease (i)afforestation	50 nos os saplings proposed over 0.02 ha area.	As above
6n	Compliance of rehabilitation of waste land within lease (ii)Area rehabilitation (ha)	No such proposal	Not applicable
6o	Compliance of rehabilitation of waste land within lease (iii)Method of rehabilitation	No such proposal	Not applicable
6p	Compliance of environmental monitoring (core zone and buffer zone)	Yes	Yes, as above
6q	General remarks of inspecting officers on PMCP compliance and progressive closure operations etc.	NA	The present status on PMCP compliance and progressive closure operations may be considered as satisfactory.

Mineral Conservation:

Sl.No.	Item	Propasals	Actual work	Remarks
7a	ROM Mineral dispatch or grade-wise sorting within lease area	ROM mineral dispatched after screening.	As above	
7b	Method of grade-wise mineral sorting i.e. manual or mechanical.	Screening & manual hand sorting.	As above	
7c	Different grade of mineral sorted out at mines.	The mineral more than 45% Fe content sorted out.	As above	
7d	Any beneficiation process at mines	No such proposal	Not applicable	

7e	General remarks of inspecting officer on Mineral conservation and beneficiation issues	NA	The present status on mineral conservation may be considered as satisfactory.
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Environment:

Sl.No.	Item	Propasals	Actual work	Remarks
8a	Separate removal and utilization of topsoil (Rule 32)	No top soil generation proposal during the year 2023-24.	As above	
8b	Concurrent use or storage of topsoil	No top soil generation proposal hence not applicable.	Not applicable.	
8c	Separate dumps for overburden, waste rock, rejects and fines (Rule 33)	Seperate waste dumping and Mineral Reject proposed.	As above	
8d	Use of overburden, waste rock, rejects and fines dumps for restoring the land to its original use	No such proposal	Not applicable	
8e	Phased restoration, reclamation and rehabilitation of lands affected by mining operations (Pits, dumps etc)	No such proposal	Not applicable	
8f	Baseline information on existence of plantation and additional plantation done (Rule 41)	During the year 2023-24 total 50 nos. sapling proposed.	50 sapling planted during the year 2023-24.	
8g	Survival rate	NA	70%	

8h	Water sprinkling on roads to control airborne dust	Yes,	Yes, as above
8i	General remarks of inspecting officer on aesthetic beauty in and around mines area	NA	The present status on aesthetic beauty in and around mines area may be considered as satisfactory.

Compliance of Rule 45:

Sl.No.	Item	Propasals	Actual work	Remarks
9a	Status of submission of Monthly and Annual returns	As per rule 45 of MCDR, 2017,holder of mining lease should submitted Monthly and Annual return in prescribed format.	Monthly return and annual Return for the year 2023-24 have been submitted.	
9b	Scrutiny of Annual return for information on Mining Engineer, Geologist and Manager	Manager : Shri Sajjan Meena Mining Engineer : Shri Raj Singh Geologist : Shri S.N.Tank	As above	
9c	Scrutiny of Annual return on land use pattern for area under pits, reclaimed area, dumps etc.	Covered under current (O-C) Workings : 2.15 h Used for waste disposal : 0.30 h Occupied by plant building etc.: 0.4 h Used for green belt : 0.11 h Used for crusher 0.1 h	As above.	

9d	Scrutiny of Annual return on afforestation	Number of trees planted during the year 50 (WML) and 55 (OML) with survival rate 70% total tree at the end of year 192 (WML) and 309 (OML)	As above
9e	Scrutiny of Annual return on mineral reject generation (Grade and quantity)	No reject generation reported in the AR 2023-24.	As above
9f	Scrutiny of Annual return on ROM stock and/or graded ore	Opening stock at mine-head : 12573.530T, Production : 600 T, Despatch from mines : 11132.11 T, closing stock : 2041.420 T	The information seems to be correct.
9g	Scrutiny of Annual return on sale value, Ex. Mine price and production cost	Ex-mine price Rs .-Tonne : Rs. 1788.73	The information furnished seems to be correct.
9h	Scrutiny of Annual return on fixed assets	Value of Fixed Assets net closing balance and estimated market value reported as Rs. 258107	Seems to be correct.
9k	Scrutiny of Annual return on mining machineries	Back hoe : One, Dumper : 2 and Air compressor:1	As above

Details of violations observed during current inspection and compliance position of violation pointed out

Violation observed		Show cause position	
Rule NO.	Issued on Compliance on	Rule NO.	Issued on Compliance on

Date :

(PANKAJ KULSHRESTHA)

Indian Bureau of Mines